AAS 199th meeting, Washington, DC, January 2002 Session 35. Galaxies I

Oral, Monday, January 7, 2002, 2:00-3:30pm, International Ballroom West

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[35.02] Molecular Gas in the "Taffy" Galaxies (UGC 12914/15)

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although the chance of direct collision between GMCs is small. conceivable that some associations of giant molecular clouds (GMCs) were left behind in a similar way cancellation of the motion of the HI gas clouds after the counter-rotating and head-on disk collision. It is are observed. The deduced gas kinematics suggest that the gas in the bridge is a result of the direct distribution in the "taffy" bridge between the two stellar disks, where the highest HI column densities imaging clearly shows that large amounts of molecular gas follow closely the radio continuum We report BIMA CO observations of the Taffy galaxies (UGC 12914/15). High resolution CO(1-0)

different regions (nuclear regions, disks, ring structure and bridges). accurately characterize their properties, and examine how the active star formation is triggered in emission as an indicator of the far-IR emission. Thus, we can better locate the sites of starburst, order to estimate the local SFE, we obtain the radio-to-CO ratio map and use the radio continuum in the Milky Way disk, an order of magnitude smaller than those found in most interacting LIGs. In luminous infrared galaxy (LIG). The global SFE ($L_{\rm IR}/M(H_2)$) is similar or lower than that of the GMCs Remarkably, Taffy is a very gas-rich system with M(HI)+M(H $_2$)~5\times1 6 M $_{
m lodot}$, but not a bona-fide

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